

sound

seismic

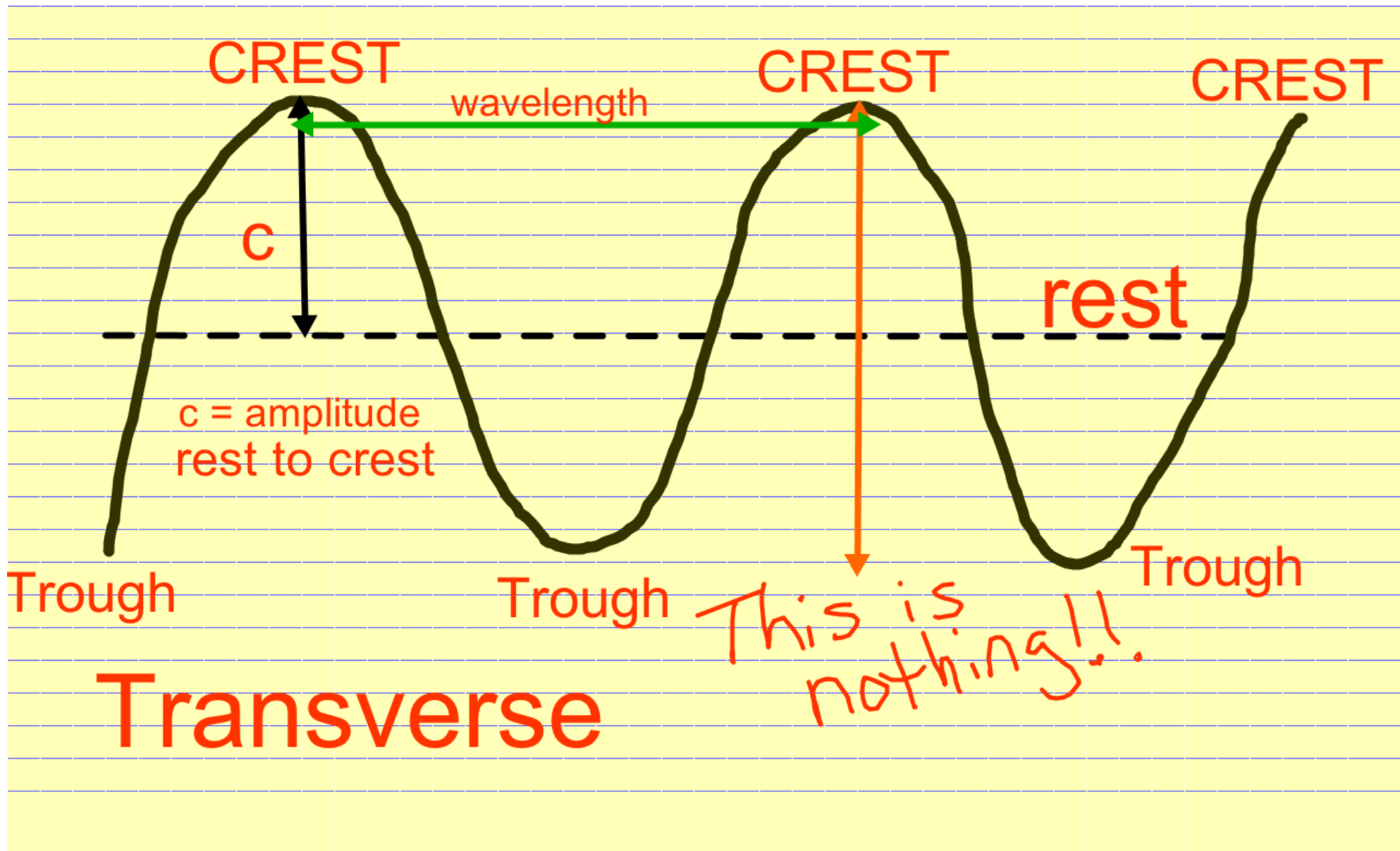
water

Microwaves

Radiation

radio

light



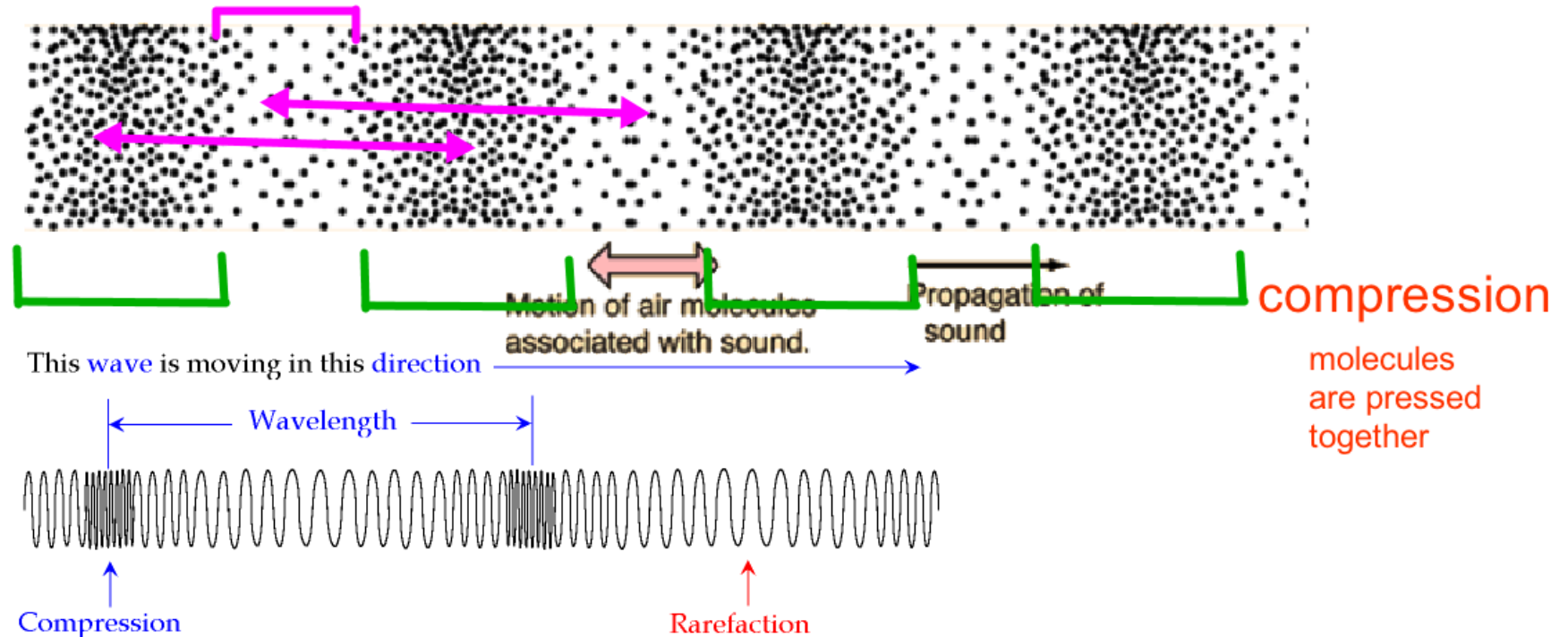
perpendicular  Transverse

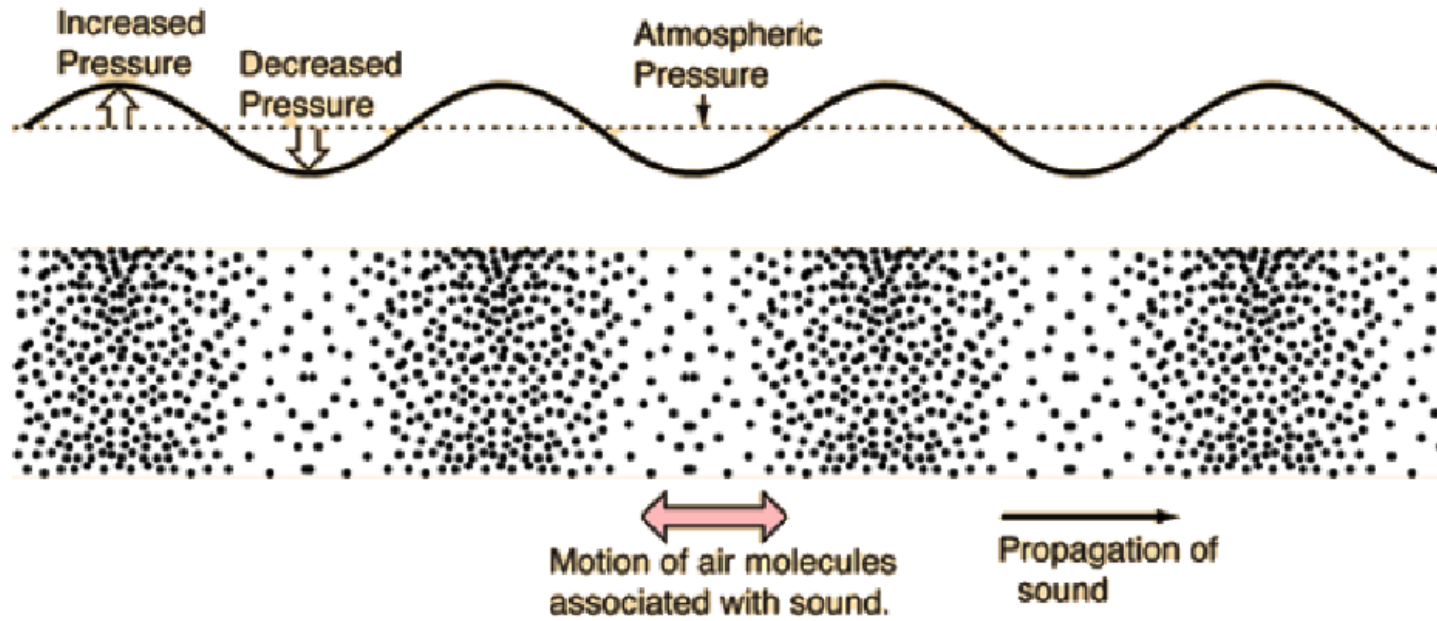
Light waves do not
need a medium!

-something to travel
in/on

Longitudinal = Compression

Rarefaction = molecules are spread out





Station 1 – Slinky Activity

pg 58

1. What actions must two people do to create a longitudinal wave with the slinky?

To create a longitudinal wave, two people...

2. How can you create 4 compressions (and rarefactions) within a distance of 1 m?

To create 4 compressions we had to...

3. What type of waves in your everyday life are examples of longitudinal waves?

I use longitudinal waves everyday because I use



Classzone

Station #2 – Classzone website – Sailing, Sailing

PREDICT:

If you set your

Frequency at 3 and the Amplitude at 1, what will happen?

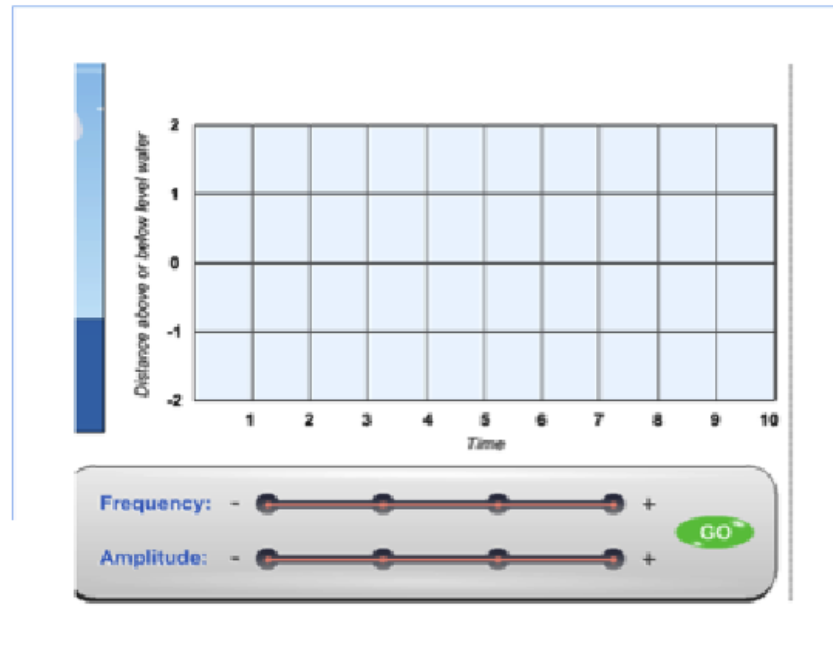
↙ write this!

Frequency is med high

Amplitude is low WHAT WILL

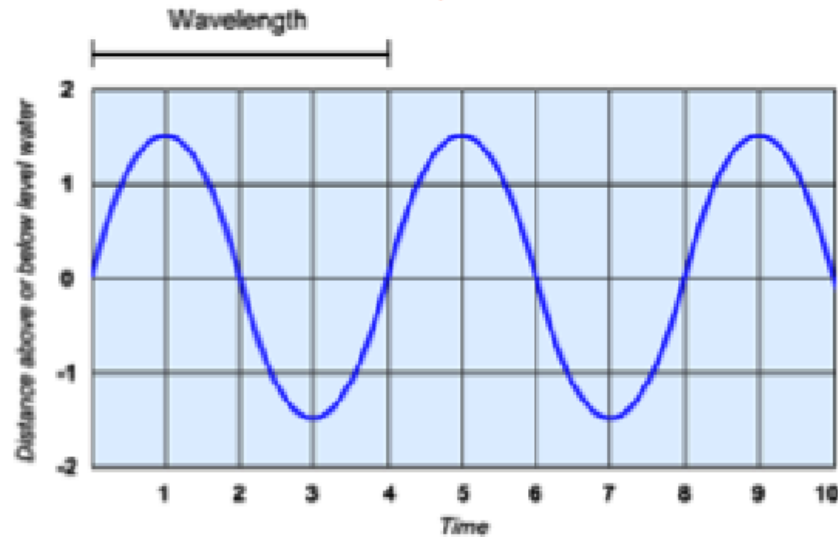
THE GRAPH LOOK LIKE?

After writing your predictions, draw the graph for the settings above.



Station #3 – Classzone website – Sailing, Sailing

To create this graph, I think the frequency should be on _____ and the amplitude set on-

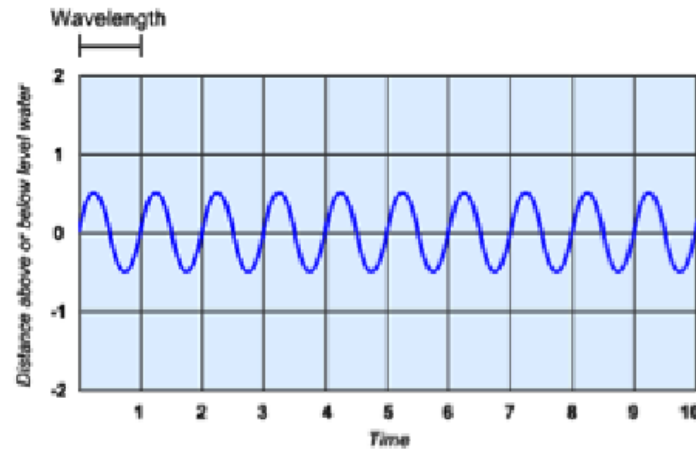


To create the graph above, you must set the Frequency and Amplitude on what settings?

Frequency: _____ Amplitude: _____ and the resulting

Wavelength is : _____

To create this graph, I think the frequency should be on _____ and the amplitude set on-

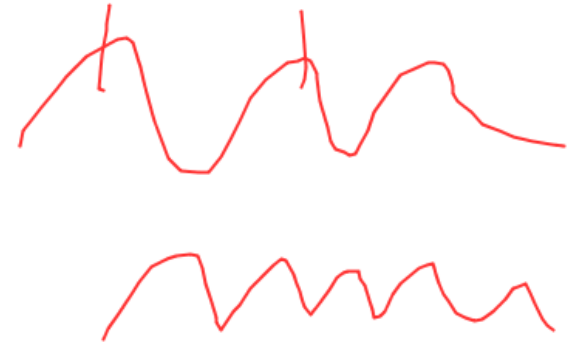


To create the graph above, you must set the Frequency and Amplitude on what settings?

Frequency: _____ Amplitude: _____ and the resulting

Wavelength is: _____

If frequency goes
down then wavelength
goes up!



If frequency goes up then
wavelength goes down!